

0
6"
three inches = one foot
1
one and one half inches = one foot
0
6"
one and one half inches = one foot
2
one inch = one foot
0
6"
one inch = one foot
2
three quarters inch = one foot
0
6"
three quarters inch = one foot
4
one half inch = one foot
0
one half inch = one foot
4
three eighths inch = one foot
0
one quarter inch = one foot
8
one eighth inch = one foot
0
16
one eighth inch = one foot

CONSTRUCTION NOTES:

CONSTRUCTION NOTES (GENERAL)

1. A GEOTECH REPORT WAS COMPLETED JANUARY 5 2012, BY BSK, REPORT #BSK G11-143-11F. COPIES OF THIS REPORT MAY BE OBTAINED BY REQUESTING THE REPORT FROM THE VA COR.
2. ALL WORK AND MATERIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SHOULD THERE BE ANY DISCREPANCY BETWEEN DRAWINGS AND SPECIFICATIONS, CONTRACTOR SHALL NOTIFY VA COR PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL CONSTRUCT IMPROVEMENTS IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
4. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DEPARTMENT OF VETERANS AFFAIRS (VA) AND ITS DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE VA OR ITS DESIGN PROFESSIONAL.
5. CONSTRUCTION CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY PRECAUTIONS AND THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED OF THE CONTRACTOR TO PERFORM HIS WORK, INCLUDING, BUT NOT LIMITED TO THE DESIGN AND CONSTRUCTION OF SHORING, SCAFFOLDING, AND UNDERPINNING, TEMPORARY RETAINMENT OF EXCAVATIONS OR STRUCTURES: ERECTION METHODS, OR TEMPORARY BRACING.
6. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING RECORDS OF UTILITY COMPANIES. THE VA AND THE DESIGN PROFESSIONAL MAKE NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. NEITHER THE VA NOR THE DESIGN PROFESSIONAL WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THE VA AND THE DESIGN PROFESSIONAL CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. NEITHER THE VA NOR THE DESIGN PROFESSIONAL HAS PHYSICALLY LOCATED THE UNDERGROUND UTILITIES, AND THE CONSTRUCTION CONTRACTOR IS ADVISED TO UTILIZE HAND-DIGGING METHODS TO VERIFY THE EXISTENCE AND LOCATIONS OF EXISTING UTILITIES.

CONSTRUCTION NOTES (STREET RIGHT-OF-WAY)

1. THE WORK EMBRACED HEREIN SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE PROVISIONS OF THE CITY OF FRESNO STANDARDS AND SPECIFICATIONS.
2. INSTALL SIDEWALKS, CURB, AND GUTTERS PER CITY OF FRESNO STANDARDS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE.
3. PERMITS MUST BE OBTAINED AND FEES PAID IN ACCORDANCE WITH THE CITY OF FRESNO.
4. CONTRACTOR SHALL OBTAIN A STREET ENCROACHMENT PERMIT PRIOR TO COMMENCING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY. SAID ENCROACHMENT PERMIT MAY REQUIRE THE CONTRACTOR TO PUT UP A BOND TO GUARANTEE THE IMPROVEMENTS AND TO ADHERE TO STRICT TIME SCHEDULES FOR THE COMPLETION OF THE WORK. PLAN CHECK FEE AND OTHER FEES FROM THE CITY OF FRESNO SHALL BE PAID BY THE CONTRACTOR AT NO EXTRA COST TO THE VA.

CONSTRUCTION NOTES (ON-SITE)

1. ALL PAVEMENT SHALL BE SURFACED IN ACCORDANCE WITH THIS PLAN AND THE FOLLOWING SPECIFICATIONS:
 - A. 12-INCH SUB-GRADE AND ALL FILL IN EXCESS OF 6 INCHES WILL BE COMPACTED IN ACCORDANCE WITH THESE PLANS AND PROJECT SPECIFICATIONS.
 - B. AGGREGATE BASE SHALL CONFORM TO AND BE PLACED IN ACCORDANCE TO WITH THESE PLANS AND PROJECT SPECIFICATIONS.
 - C. PAINT BINDER WILL BE AS SPECIFIED BY THE RESIDENT ENGINEER AND SHALL CONFORM TO AND BE APPLIED IN ACCORDANCE WITH THE VA STANDARD SPECIFICATIONS.
 - D. ASPHALT CONCRETE SURFACING SHALL BE TYPE B WITH ¾ INCH [19MM] MAXIMUM-MEDIUM AGGREGATE USING PROVISIONS ON THE ASPHALT INSTITUTE SPECIFICATION SS2, PENETRATION GRADE 50/60.
2. ALL MANHOLES, VALVES AND UTILITY BOXES AFFECTED BY THIS PROJECT SHALL BE ADJUSTED TO GRADE AS NECESSARY AND INCLUDED IN THIS WORK.
3. CONTRACTOR SHALL PAY FOR ALL REQUIRED COMPACTION TESTS.
4. TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION, THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) CALL TOLL FREE AT 811.
5. CONTRACTOR SHALL REPAIR OR REPLACE ANY IMPROVEMENTS THAT ARE BROKEN OR DAMAGED IN ANY MANNER BY HIS OPERATIONS. SAID REPAIRS OR REPLACEMENTS SHALL BE DONE TO THE SATISFACTION OF THE VA COR.
6. CONTRACTOR SHALL DEMOLISH EXISTING BUILDING FOUNDATION IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

CONSTRUCTION NOTES (UTILITIES)

1. CONTRACTOR SHALL SUBMIT TO VA COR A COMPLETE AND DETAILED SET OF WORKING AS-BUILTS OF ALL UNDERGROUND IMPROVEMENTS. THE AS-BUILTS OF ALL IMPROVEMENTS SHALL GIVE THE DEPTH AND ALIGNMENT OF UTILITIES, VALVE AND MANHOLE LOCATIONS, AND SEWER, WATER AND STORM DRAIN LATERAL LOCATIONS. THE MEASUREMENTS SHALL BE SUBMITTED PRIOR TO ACCEPTANCE OF THE WORK BY THE VA.

CONSTRUCTION NOTES: CONTINUED

2. EXISTING UNDERGROUND UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR TO VERIFY EXISTING LOCATION PRIOR TO BEGINNING CONSTRUCTION OPERATIONS IN THE VICINITY OF THE UNDERGROUND UTILITY. SHOULD THERE BE ANY DISCREPANCY BETWEEN THE SHOWN LOCATION AND THE ACTUAL, CONTRACTOR SHALL NOTIFY THE VA COR IMMEDIATELY.

CONSTRUCTION NOTES (GRADING)



THE FOLLOWING SPECIFICATIONS ARE BASED ON GENERALLY ACCEPTED PRACTICES IN THIS AREA AND MAY NOT BE APPROPRIATE FOR VARIATIONS IN SOIL CONDITIONS EXPERIENCED AS CONSTRUCTION PROGRESSES. IF APPLICABLE, THE CONCLUSIONS, RECOMMENDATIONS AND/OR INSTRUCTIONS PROVIDED BY THE GEOTECHNICAL ENGINEER FOR THE TREATMENT OF SUCH VARIATIONS SHALL SUPERSEDE THESE SPECIFICATIONS.

1. ALL SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED, OR IF DAMAGED, RESET BY A LICENSED LAND SURVEYOR AT NO COST TO THE OWNER.
2. INSPECTED BY THE VA COR, ALL GRADING SHALL COMPLY WITH THESE PLANS AND PROJECT SPECIFICATIONS, AS WELL AS THE VA CODES AND REQUIREMENTS.
3. CONTRACTOR SHALL PROVIDE VA COR WITH AS-GRADED PLANS. PLANS ARE TO BE SUBMITTED UPON COMPLETION OF GRADING.
4. CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY MAINTAINED TO CONTROL DUST AND SHALL PERFORM FINAL CLEANING TO THE SATISFACTION OF THE VA COR.
5. COMPACTION, UNLESS OTHERWISE SPECIFIED HEREIN, THE TERMS "COMPACTION" OR "COMPACTED", WHENEVER USED OR IMPLIED, SHALL BE INTERPRETED AS THE SPECIFIED COMPACTION, A PERCENTAGE OF THE MAXIMUM DENSITY OBTAINABLE BY A.S.T.M. TEST METHOD D1557, AND SHALL BE 90% UNLESS NOTED OTHERWISE ON THE PLANS, SPECIFICATION OR GEOTECHNICAL REPORT.
6. SCARIFY EARTH MATERIALS TO A MINIMUM DEPTH OF TWELVE (12.0) INCHES [305MM] BELOW THE BOTTOM OF PROPOSED BUILDING FOOTINGS, AND TO A MINIMUM DEPTH OF TWELVE (12.0) INCHES [305MM] BELOW PROPOSED PAVEMENT SECTION.
7. MOISTEN SOILS TO NEAR THE OPTIMUM MOISTURE CONTENT CONSISTENT WITH EFFECTIVE COMPACTION AND SOIL STABILITY.
8. COMPACTION OF MOISTENED SOILS SHALL BE AS FOLLOWS:
 - EXISTING 12KV ELECTRICAL LINE: 90 PERCENT RELATIVE COMPACTION OF ASTM D 1557
 - BUILDING PAD: 92 PERCENT RELATIVE COMPACTION OF ASTM D 1557
 - PARKING LOT PAVEMENT 95 PERCENT RELATIVE COMPACTION OF ASTM D 1557 FOR THE TOP TWELVE (12) INCHES [305MM] OF SUBGRADE
 - CONCRETE FLATWORK, PAVEMENT, CURBS, GUTTERS: 95 PERCENT RELATIVE COMPACTION OF ASTM D 1557
 - UTILITY TRENCHES UNDER BUILDING PAD AND WITH FIVE (5) FEET [1524MM] OF THE EDGE OF THE BUILDING: 92 PERCENT RELATIVE COMPACTION OF ASTM D 1557.
 - UTILITY TRENCHES FIVE (5) FEET [1524MM] BEYOND THE EDGE OF THE BUILDING: 95 PERCENT RELATIVE COMPACTION FOR THE UPPERMOST TWENTY FOUR (24) INCHES [610MM] OF TRENCH BACKFILL. REMAINING BACKFILL 90 PERCENT RELATIVE COMPACTION.
 - LANDSCAPE AREAS, TOP SIXTEEN (16) INCHES [400MM]: 85 PERCENT RELATIVE COMPACTION OF ASTM D 1557.
 - LANDSCAPE AREAS, BELOW SIXTEEN (16) INCHES [400MM] OF FINISH GRADE: 90 PERCENT RELATIVE COMPACTION ASTM D 1557.
9. ENGINEERED FILL – EARTH MATERIALS OBTAINED ON SITE ARE ACCEPTABLE FOR USE AS ENGINEERED FILL PROVIDED THAT ALL GRASSES, WEEDS AND OTHER DELETERIOUS DEBRIS ARE FIRST REMOVED. ENGINEERED FILL SHALL BE PLACED IN UNIFORM LAYERS NOT EXCEEDING EIGHT (8) INCHES [203MM] IN LOOSE THICKNESS, MOISTURE CONDITIONED TO WITHIN TWO (2) PERCENT OF OPTIMUM MOISTURE CONTENT , AND COMPACTED TO LEVELS INDICATED, IN ACCORDANCE WITH ASTM D 1557. THE MINIMUM LOCATIONS WHERE ENGINEERED FILL IS REQUIRED OCCUR AT THE FOLLOWING LOCATIONS:

- EXISTING 12KV ELECTRICAL LINE.
 - BUILDING PAD.
 - PARKING LOT PAVEMENT.
 - CONCRETE FLATWORK PAVEMENT, CURBS, GUTTERS CONSTRUCTED IN THE AREA FIVE (5) FEET [1524MM] BEYOND THE EDGE OF THE BUILDING AND IN THE AREA OF THE ORIGINAL PARKING LOT.
 - UTILITY TRENCHES UNDER BUILDING PAD AND WITH FIVE (5) FEET [1524MM] OF THE EDGE OF THE BUILDING.
 - UTILITY TRENCHES FIVE (5) FEET [1524MM] BEYOND THE EDGE OF THE BUILDING.
 - LOCATIONS NEEDING TO BE ELEVATED DUE TO EXCESS EXCAVATION BY THE CONTRACTOR WHERE NON-LANDSCAPE SITE IMPROVEMENTS ARE SHOWN ON THE DRAWINGS OR REQUIRED.
10. IMPORTED FILL – IF IT BECOMES NECESSARY TO IMPORT MATERIALS FROM OFF-SITE TO COMPLETE SITE GRADING, IMPORTED SOILS SHALL CONSIST OF SAND OR SILTY SANDS WITH LOW EXPANSION POTENTIAL AND FREE OF GRASSES, SEEDS, DEBRIS AND ROCKS LARGER THAN THREE (3.0) INCHES [76MM] IN MAXIMUM DIMENSION. IMPORTED FILL SHALL CONTAIN SUFFICIENT SILT AND CLAY BINDER TO RENDER THEM STABLE IN FOOTING TRENCHES AND CAPABLE OF MAINTAINING SPECIFIED ELEVATION TOLERANCES DURING PAVING OPERATIONS AND SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

MAXIMUM PARTICLE SIZE:	3"
PERCENT PASSING #4 SIEVE:	65%-100%
PERCENT PASSING #200 SIEVE:	20%-45%
PLASTICITY INDEX:	LESS THAN 12
R-VALUE:	MINIMUM OF 50
LOW CORROSION POTENTIAL:	
SOLUBLE SULFATE:	<1,500MG/KG
SOLUBLE CHLORIDES:	<300MG/KG
SOIL RESISTIVITY:	>6,000OHM-CM

11. SITE PREPARATION SHALL BE AS FOLLOWS:
 - EXISTING 12KV ELECTRICAL LINE: THE EXISTING THREE (3) FOOT [914MM] WIDE CONCRETE ENCASED 12KV ELECTRICAL CONDUITS SHALL HAVE ITS EXISTING TRENCH BACKFILL EXCAVATED DOWN TO THE TOP OF THE CONCRETE ENCASEMENT AND FULL WIDTH OF THE ENCASEMENT.
 - BUILDING PAD: THE BUILDING PAD SHALL BE OVER EXCAVATED TO A MINIMUM DEPTH OF FIVE (5) FEET BELOW THE STRIPPED SURFACE OR TWELVE (12) INCHES [305MM] BELOW THE BOTTOM OF THE FOOTING, WHICHEVER IS DEEPER. THE OVER EXCAVATION SHALL EXTEND Laterally A MINIMUM OF FIVE (5) FEET [1524MM] BEYOND THE EDGE OF THE BUILDING.
 - PARKING LOT: THE PARKING LOT, AS SHOWN ON THE PLANS, SHALL BE OVER EXCAVATED TO A MINIMUM DEPTH OF TWELVE (12) INCHES [305MM] BELOW EXISTING PAVEMENT SUB-GRADE.
 - AFTER COMPLETION OF REQUIRED OVER EXCAVATION, THE EXPOSED SUB-GRADE SHALL BE SCARIFIED TO A DEPTH OF EIGHT (8) INCHES [203MM], MOISTURE CONDITIONED TO WITHIN TWO (2) PERCENT OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D 1557.
 - FOR AREAS NOT REQUIRING OVER EXCAVATION PRIOR TO COMPACTION THE EXISTING SUB-GRADE SHALL BE SCARIFIED TO A DEPTH OF EIGHT (8) INCHES [203MM], MOISTURE CONDITIONED TO WITHIN TWO (2) PERCENT OF OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D 1557.
12. SHOULD THERE BE ANY DISCREPANCY BETWEEN THE PROJECT SPECIFICATIONS AND THESE PLANS, CONTRACTOR SHALL NOTIFY VA COR IMMEDIATELY.

		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title SITE DEMOLITION AND IMPROVEMENT NOTES		Project Title Mental Health Psychosocial Rehab Recovery and Health Care for Homeless Veteran Center		Project Number 570-217		Office of Construction and Facilities Management:			
		<div>Blair Church & Flynn</div> <div>CONSULTING ENGINEERS</div> <div>461 Davis Avenue, Suite 200 Davis, California 95612 Tel (530) 526-5400 Fax (530) 526-5300</div>		<div></div> <div>8/7/2014 Date Signed</div>		<div>HMC Architects</div> <div>1827 E Fir Ave, Fresno, CA 93720 T 559 922 2444/ www.hmcarchitects.com HMC PROJECT #1393002-000</div>		Approved: Project Director		Location 2615 E. CLINTON AVE, FRESNO, CA 93703		Drawing Number CG001 Dwg. 9 of 197					
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